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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/757,332A

DATE: 04/14/2003 TIME: 14:56:11

Input Set : A:\EP.txt

Output Set: N:\CRF4\04142003\I757332A.raw

```
1 <110> APPLICANT: Achilefu, Samuel I.
             Rajagopalan, Raghavan
             Dorshow, Richard B.
     3
             Bugaj, Joseph E.
     4
             Mallinckrodt Inc.
     8 <120> TITLE OF INVENTION: Hydrophilic Cyanine Dyes
    10 <130> FILE REFERENCE: MRD-66
    12 <140> CURRENT APPLICATION NUMBER: US 09/757,332A
    13 <141> CURRENT FILING DATE: 2001-01-09
    15 <150> PRIOR APPLICATION NUMBER: US 09/484,319
    16 <151> PRIOR FILING DATE: 2000-01-18
    18 <160> NUMBER OF SEQ ID NOS: 8
    20 <170> SOFTWARE: Patent-In Version 3.1
    22 <210> SEQ ID NO: 1
    23 <211> LENGTH: 8
     24 <212> TYPE: PRT
     25 <213> ORGANISM: Artificial Sequence
     27 <220> FEATURE:
W--> 28 <221> NAME/KEY: MOD RES
     29 <222> LOCATION: (1)...(8)
     30 <223> OTHER INFORMATION: Xaa at location 1 represents D-Phe. Artificial sequence
              is completely synthesized.
     32 <223> OTHER INFORMATION: Xaa at locations 2 and 7 represents Cys with an
              intramolecular disulfide bond between two Cys
              amino acids. Artificial sequence is completely
     34
              synthesized.
     36 <223> OTHER INFORMATION: Xaa at location 4 represents D-Trp. Artificial sequence
              is completely synthesized.
W--> 39 < 400 > 1
W--> 40 Xaa Xaa Tyr Xaa Lys Thr Xaa Thr
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              is completely synthesized.
     54 <223> OTHER INFORMATION: Xaa at locations 2 and 7 represents Cys with an
              intramolecular disulfide bond between two Cys
     55
              amino acids. Artificial sequence is completely
     56
```

DATE: 04/14/2003

TIME: 14:56:11

Input Set : A:\EP.txt Output Set: N:\CRF4\04142003\I757332A.raw synthesized. 57 58 <223> OTHER INFORMATION: Xaa at location 4 represents D-Trp. Artificial sequence is completely synthesized. 60 <223> OTHER INFORMATION: Xaa at location 8 represents Thr-OH. Artificial sequence is completely synthesized. W--> 63 <400> 2 W--> 64 Xaa Xaa Tyr Xaa Lys Thr Xaa Xaa 5 65 1 66 <210> SEQ ID NO: 3 69 <211> LENGTH: 11 70 <212> TYPE: PRT 71 <213> ORGANISM: Unknown 73 <220> FEATURE: W--> 74 <221> NAME/KEY: MOD RES 75 <222> LOCATION: (1)...(11) 76 <223> OTHER INFORMATION: Bombesin analog 78 <400> SEQUENCE: 3 79 Gly Ser Gly Gln Trp Ala Val Gly His Leu Met 80 1 83 <210> SEQ ID NO: 4 84 <211> LENGTH: 11 85 <212> TYPE: PRT 86 <213> ORGANISM: Unknown 88 <220> FEATURE: W--> 89 <221> NAME/KEY: MOD RES 90 <222> LOCATION: (1)...(11) 91 <223> OTHER INFORMATION: Bombesin analog 93 <400> SEQUENCE: 4 94 Gly Asp Gly Gln Trp Ala Val Gly His Leu Met 5 98 <210> SEQ ID NO: 5 99 <211> LENGTH: 8 100 <212> TYPE: PRT 101 <213> ORGANISM: Unknown 103 <220> FEATURE: W--> 104 <221> NAME/KEY: MOD RES 105 <222> LOCATION: (1)...(8) 106 <223> OTHER INFORMATION: Cholecystokinin octapeptide analogs 108 <400> SEQUENCE: 5 109 Asp Tyr Met Gly Trp Met Asp Phe 5 110 1 113 <210> SEQ ID NO: 6 114 <211> LENGTH: 8 115 <212> TYPE: PRT 116 <213> ORGANISM: Artificial Sequence 118 <220> FEATURE: W--> 119 <221> NAME/KEY: MOD RES 120 <222> LOCATION: (1)...(6) 121 <223> OTHER INFORMATION: Xaa at locations 3 and 6 represents Norleucine.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/757,332A

DATE: 04/14/2003

PATENT APPLICATION: US/09/757,332A TIME: 14:56:11 Input Set : A:\EP.txt Output Set: N:\CRF4\04142003\I757332A.raw Artificial sequence is completely synthesized. 124 <400> SEQUENCE: 6 W--> 125 Asp Tyr Xaa Gly Trp Xaa Asp Phe 126 1 127 <210> SEQ ID NO: 7 128 <211> LENGTH: 8 129 <212> TYPE: PRT 130 <213> ORGANISM: Artificial Sequence 132 <220> FEATURE: W--> 133 <221> NAME/KEY: MOD RES 134 <222> LOCATION: (1)...(8) 137 <223> OTHER INFORMATION: Xaa at location 1 represents D-Asp. Artificial sequence is completely synthesized. 139 <223> OTHER INFORMATION: Xaa at locations 3 and 6 represents Norleucine. Artificial sequence is completely synthesized. 140 W--> 142 <400> 7 W--> 143 Xaa Tyr Xaa Gly Trp Xaa Asp Phe 144 1 147 <210> SEQ ID NO: 8 148 <211> LENGTH: 8 149 <212> TYPE: PRT 150 <213> ORGANISM: Artificial Sequence 152 <220> FEATURE: W--> 153 <221> NAME/KEY: MOD RES 154 <222> LOCATION: (1)...(8) 155 <223> OTHER INFORMATION: Xaa at location 1 represents D-Lys. Artificial sequence is completely synthesized.

RAW SEQUENCE LISTING

158 <400> SEQUENCE: 8

160

1

W--> 159 Xaa Pro Arg Arg Pro Tyr Ile Leu

DATE: 04/14/2003 RAW SEQUENCE LISTING ERROR SUMMARY TIME: 14:56:12 PATENT APPLICATION: US/09/757,332A

Input Set : A:\EP.txt

Output Set: N:\CRF4\04142003\I757332A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,4,7 Seq#:2; Xaa Pos. 1,2,4,7,8 Seq#:6; Xaa Pos. 3,6 Seq#:7; Xaa Pos. 1,3,6 Seq#:8; Xaa Pos. 1

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/757,332A TIME: 14:56:12

DATE: 04/14/2003

Input Set : A:\EP.txt

Output Set: N:\CRF4\04142003\1757332A.raw

L:28 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1 L:39 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1 L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0 L:50 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2 L:63 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2 L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0 L:74 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3 L:89 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4 L:104 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5 L:119 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6 L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 L:133 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7 L:142 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0 L:153 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8 L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0